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(71) Applicant: **Imagination Technologies Limited**  
**Kings Langley, Hertfordshire WD4 8LX (GB)**

(72) Inventor: **Pearce, Simon**  
**Kings Langley Hertfordshire WD4 8LB (GB)**

(74) Representative: **Robson, Aidan John**  
**Reddie & Grose**  
**16 Theobalds Road**  
**London WC1X 8PL (GB)**

**(54) Texturing systems for use in three-dimensional imaging systems**

(57) A method and apparatus are provided for generating textured data for use in texturing an image. Texture data is first represented by arbitrary compressed codes in which selected compressed code values define principal colors and other compressed code values define colors which can be formed by selected weighted averages of principal colors, the corresponding current

values also being weighted averages of the code values of the selected principal colors. An output texel is interpolated full of variety of input texels with the interpolating step being effecting using compressed code values. These code values are subsequently decompressed to give the actual color values.

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## EUROPEAN SEARCH REPORT

Application Number  
EP 02 07 8562

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Incl.7)
A	EP 0 810 553 A (SEIKO EPSON CORP) 3 December 1997 (1997-12-03) * the whole document *		G06T15/20
A	WO 97/41534 A (3DFX INTERACTIVE INC) 6 November 1997 (1997-11-06) * the whole document *		
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			TECHNICAL FIELDS SEARCHED (Incl.7)
			G06T
The present search report has been drawn up for all claims			
Place of search Berlin		Date of completion of the search 10 March 2004	Examiner Vollmann, K
CATEGORY OF CITED DOCUMENTS		T: theory or principle underlying the invention E: earlier patent document, but published on, or after the filing date O: document cited in the application L: document cited for other reasons A: member of the same patent family, corresponding document X: particularly relevant if taken alone Y: particularly relevant if combined with another document of the same category A: technological background O: non-written disclosure P: intermediate document	

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**ANNEX TO THE EUROPEAN SEARCH REPORT  
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